

BRAIDED MODULAR STENT WITH HOURGLASS-SHAPED INTERFACES

ABSTRACT

A braided modular stent comprising a first component and a second component, each component comprising an hourglass-shaped interface having a reduced diameter section positioned between two sloped sections. Each sloped section extends between the reduced diameter section and one of a plurality of nominal diameter sections.

- 5 The reduced diameter section has a greater radial strength than the nominal diameter sections. One of the components may have a sealing region, such as a circumferential elevation, for providing an endoleak-resistant seal between the stent and a body lumen. One exemplary method for fabricating a circumferential elevation comprises affixing a plurality of filaments, such as sutures, between overlaps of braided filaments in one region and overlaps
10 in another region.